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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/580,137	04/03/2007	Roger Stave	207,588	9210	
7590 10/31/2007			EXAMINER		
666 Third Aver	Abelman Frayne & Schwab 666 Third Avenue			BEACH, THOMAS A	
New York, NY	10017-5621		ART UNIT	PAPER NUMBER	
			3671		
			MAIL DATE	DELIVERY MODE	
	1		10/31/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/580,137	STAVE			
Office Action Summary	Examiner	Art Unit			
	Thomas A. Beach	3671			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	ith the correspondence address			
• •	:DIVIO OET TO EVOIDE - 11				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIO  R 1.136(a): In no event, however, may a r  riod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on _					
3) Since this application is in condition for allo	wance except for formal matt	ters, prosecution as to the merits is			
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applicat	tion.				
4a) Of the above claim(s) 5-12 is/are withdr					
5) Claim(s) is/are allowed.		•			
6)⊠ Claim(s) <u>1-4</u> is/are rejected.					
7) Claim(s) is/are objected to					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers		•			
9)☐ The specification is objected to by the Exan	niner.				
10) The drawing(s) filed on is/are: a)		by the Examiner.			
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co	rrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.			
riority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority docum		ma Parada a Nia			
<ul><li>2. ☐ Certified copies of the priority docum</li><li>3. ☒ Copies of the certified copies of the</li></ul>					
3. Copies of the certified copies of the paper application from the International But		received in this National Stage			
* See the attached detailed Office action for a	, , , , , , , , , , , , , , , , , , , ,	received.			
and an					
		•			
uttachment(s)					
Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)			
) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Notice of Draftsperson's Patent (s) (PTO/SB/08)		s)/Mail Date nformal Patent Application			
Paper No(s)/Mail Date	6)  Other:				

### **DETAILED ACTION**

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#### Claim Objections

1. Claims 5-12 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims not been further treated on the merits.

#### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Gardes 4,599,172 or 4,410,425 respectively. Gardes shows a device for removal and filtration of drilling fluid in top hole drilling, where a suction module comprises an elongated pipe-formed body (28, 22 respectively) which is open at the top and is arranged to an ocean-bottom penetrating pipe (col. 1, lines 6+), through which is led a drill stem for drilling of the top hole, and the pipe-formed body comprises a filtration device (64, 36 respectively) with through openings, where said openings are arranged to let through to at least one outlet passage (30, 30 respectively) in the pipe wall, filtered return drilling fluid containing dispersed material, such as swelling clay or stones, having that filtered

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return drilling fluid from the bore hole is exported to a pump module (not shown) through the at least one outlet passage (30, 30 respectively) in the pipe wall, where the drilling fluid is of a size less then the diameter of a inlet pipe of the pump or openings of the pump, and that the upper part of the pipe-formed body is arranged to contain return drilling fluid, which is not fed to the pump module, and where the level/volume of said drilling fluid stands as a "plug" above the outlet for the pumps suction pipe (30, 30 respectively) and is arranged to seal against the drill stem (18, 20 respectively).

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As concerns claim 2, Gardes shows the level/volume of return drilling fluid in the pipe-formed body (30) is arranged to be adjusted by regulation of the capacity of the pump (figure 1).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gardes 4,599,172 or 4,410,425. Gardes does not show the suction module (10) comprises a camera and/or a sonar for monitoring of the level of the drilling fluid, i.e. the "plug" of return drilling fluid, in the pipe-formed body, and that monitoring signals are sent to an operator for regulation of the capacity of the pump or measuring equipment

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for monitoring of the level of drilling fluid, i.e. the "plug" of return drilling fluid, in the pipeformed body (30), and that monitoring signals are sent to an operator, or directly to the pump (12) for regulation of the capacity of the pump. However, Examiner takes official notice that having measurements to monitor fluid level is obvious in the art of oil fluid recovery in order to properly control the drilling operations.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas A. Beach whose telephone number is 571.272.6988. The examiner can normally be reached on Monday-Friday, 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Will can be reached on 571.272.6998. The fax phone number for the organization where this application or proceeding is assigned is 571.273.8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free).

Thomas A: Beach

ber 29, 2007

THOMAS A. BEACH Primary Examiner Group 3600